IN THE CLAIMS

1. (Currently Amended) A method, comprising:

selectively applying one or more etchants a single etchant comprising a diluted compound of nitric acid and hydrofluoric acid to an edge region of a substrate, said substrate having a central region adjacent to said edge region, wherein a metallization layer stack is formed at least on said central region, said metallization layer stack comprising at least an insulating layer, a barrier layer comprising tantalum and a metal layer comprising copper; and

removing unwanted material at least of said metal layer and said barrier layer selectively

from said edge region, wherein a said first single etchant is applied to remove

material of said metal layer and a second etchant is applied to remove material at

least of said barrier layer.

- 2. (Original) The method of claim 1, further comprising removing material of said insulating layer selectively from said edge region.
 - 3. (Cancel)
 - 4. (Canceled)
 - 5. (Cancel)
 - 6. (Cancel)

- 7. (Cancel)
- 8. (Original) The method of claim 1, wherein said substrate is exposed in said edge region during said material removal.
 - 9. (Canceled)
- 10. (Currently Amended) The method of claim 1, further comprising applying said single etchant at the back side of said substrate to remove unwanted material.
- 11. (Currently Amended) The method of claim 1, wherein said metal layer comprises copper and is formed by an electro-chemical process.
- 12. (Currently Amended) A method of reducing contamination of a substrate after formation of a metallization layer stack on said substrate, the method comprising:
 - selectively removing unwanted material of a metal layer comprising copper and a barrier

 layer comprising tantalum from an edge region of said substrate by using a first

 etchant comprising a diluted compound of nitric acid and hydrofluoric acid as the

 main component; and
 - removing unwanted metal <u>of said metal layer</u> with a second etchant other than said first etchant from said edge region prior to selectively removing unwanted material with said first etchant.

- 13. (Original) The method of claim 12, wherein at least material of a barrier layer of said metallization layer stack is removed.
- 14. (Original) The method of claim 13, wherein dielectric material is removed so as to expose said substrate at said edge region.
- 15. (Original) The method of claim 12, wherein unwanted metal of said metallization layer is removed.
 - 16. (Canceled)
 - 17. (Canceled)
- 18. (Original) The method of claim 12, further comprising removing unwanted material from a back side of said substrate.
 - 19.-22. (Canceled)
 - 23. (Currently Amended) A method, comprising:
 - of hydrofluoric acid and nitric acid to an edge region of a substrate, said substrate having a central region adjacent to said edge region, wherein a metallization layer stack is formed at least on said central region, said metallization layer stack

comprising at least an insulating layer, a barrier layer comprising tantalum and a metal layer comprising copper, wherein applying said <u>single</u> etchant is performed in an substantially air-tight ambient to substantially avoid the emission of gaseous nitric oxides; and

applying said single etchant to remove <u>removing</u> unwanted material at least of said metal layer and said barrier layer selectively from said edge region.

- 24. (Previously Presented) The method of claim 23, further comprising removing material of said insulating layer selectively from said edge region.
 - 25. (Cancel)
 - 26. (Cancel)
 - 27. (Cancel)
- 28. (Currently Amended) The method of claim 23, further comprising applying said single etchant at the back side of said substrate to remove unwanted material.
- 29. (Currently Amended) The method of claim 23, wherein said metal layer emprises copper and is formed by an electro-chemical process.

30. (Currently Amended) A method of reducing contamination of a substrate after formation of a metallization layer stack on said substrate, said metallization layer comprising copper, the method comprising:

selectively removing unwanted material from an edge region of said substrate by using a first etchant comprising a diluted compound of nitric acid and hydrofluoric acid as the main component, wherein said selective removal of unwanted material with said first etchant is performed in a protected environment to substantially avoid liberation of gaseous nitric oxide, wherein at least material of a barrier layer of said metallization layer stack and copper of said metallization layer is removed.

31. (Canceled)

- 32. (Previously Presented) The method of claim 31, wherein dielectric material is removed so as to expose said substrate at said edge region.
 - 33. (Cancel)
- 34. (Previously Presented) The method of claim 30, further comprising removing unwanted metal with a second etchant other than said first etchant from said edge region prior to selectively removing unwanted material with said first etchant.